CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.07/LN/CEMENT/2014-15

Date: 26.04.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. L. Narayanaswamy**, Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	470 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.00 %	-

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Job No.: CTCE/BBMP/W.No.07/LN/SAND/2014-15 : 26.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Narayanaswamy,** Contractor, Bangalore.

Name of Work : Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014

Date of Testing : 26.04.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	105	5.25	5.25	94.8	90-100
2.36	223	11.15	16.40	83.6	75-100
1.18	508	25.40	41.80	58.2	55-90
600 Micron	426	21.30	63.10	36.9	35-59
300 Micron	487	24.35	87.45	12.6	8-30
150 Micron	205	10.25	97.70	2.3	0-10

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Job No.: CTCE/BBMP/W.No.07/LN/AGG/2014-15 : 26.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Narayanaswamy,** Contractor, Bangalore.

Name of Work : Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.

Reference : AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014

Date of Testing : 26.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 25500

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.90	3.90	96.10	95-100
20	15630	61.29	65.20	34.80	30-70
10	5745	22.53	87.73	12.27	10-35
4.75	2630	10.31	98.04	1.96	0-5

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Job No.: CTCE/BBMP/W.No.07/LN/STEEL/2014-15 30.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Narayanaswamy**, Contractor, Bangalore.
Name of the work	:	Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014
Date of Test	:	30.04.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	547	12.80	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/LN/STEEL/2014-15 30.04.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. L. Narayanaswamy**, Contractor, Bangalore.
Name of the work	:	Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.
Reference	:	AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014
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Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	551	13.15	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/LN/CUBE/2013-14 06.06.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. L. Narayanaswamy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads and Drain in Kariyanna Palya in Ward No.07 at Kodigehalli Sub Division, BBMP, Bangalore.
Reference	: AEE/(KOD.SUB.DIV)/102/2014-15 Dated: 24.04.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2014	06.06.2014	8.145	513.9	22.84
2	09.05.2014	06.06.2014	8.392	531.8	23.64
3	09.05.2014	06.06.2014	8.267	528.6	23.49

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